



PATENT APPLICATION  
Docket No. 15184.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of		)
	Baird et al.	)
Serial No.:	09/875,444	) Art Unit
		) 2172
Filed:	June 6, 2001	)
For:	METHODS AND SYSTEMS FOR USER ACTIVATED AUTOMATED SEARCHING	)
Examiner:	Isaac M. Woo	)

DECLARATION UNDER SECTION 1.131

The undersigned, hereby declare as follows:

1. We, Bruce R. Baird and John M. Zollinger are the inventors of the invention discussed in Serial No. 09/875,444 as claimed therein and subsequently amended ("the invention").
2. We first conceived of the subject matter covered in the invention at least as early as March 27, 2000.
3. On March 27, 2000 we attended a lunch meeting at the Café Molise restaurant in Salt Lake City, Utah where the concepts embodied by the invention were discussed. The ideas that were discussed at this meeting are summarized in a "Product Synopsis" document, a true and correct copy of which is attached as Exhibit "A" and created contemporaneously with such meeting.

4. On March 27, 2000, Bruce Baird also met with patent counsel to discuss the ideas summarized in the "Product Synopsis" document.

5. After conceiving of the subject matter covered by the invention at least as early as March 27, 2000, we were diligent in reducing the subject matter to practice as evidenced by our filing of United States Provisional Patent Application No. 60/204,245 entitled "Methods and Systems for User Activated Automated Searching," which was filed on May 15, 2000 in the United States Patent and Trademark Office, a true and correct copy of which is attached as Exhibit "B".

6. United States Provisional Patent Application No. 60/204,245 was unintentionally, not converted to a conventional application, and lapsed on May 15, 2001. Upon learning that the provisional application lapsed on May 15, 2001, Applicants directed counsel to prepare and file a nonprovisional application for filing in the United States Patent and Trademark Office.

7. The work to prepare and file the nonprovisional application began immediately. The nonprovisional application was finalized, reviewed and approved by the inventors and placed on file in less than two and a half weeks following the lapse date, namely June 6, 2001. The nonprovisional application filed on June 6, 2001 is the present application under consideration and upon filing received U.S. Serial No. 09/875,444 ("the '444 application").

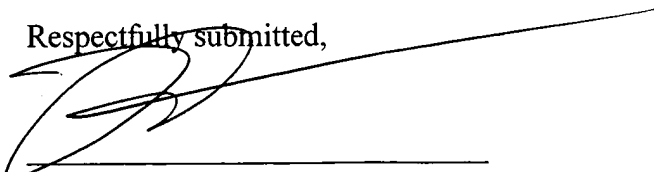
8. No public disclosure of the invention claimed in United States Provisional Application No. 60/204,245 was made prior to the filing of the '444 application.

9. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable for fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DATED this 19<sup>th</sup> day of April, 2006.

Respectfully submitted,



A handwritten signature in black ink, appearing to be 'BRUCE R. BAIRD', is written over a horizontal line. The signature is stylized with a large, sweeping initial 'B'.

BRUCE R. BAIRD

DATED this 17 day of Apr: 1, 2006.

Respectfully submitted,

  
JOHN M. ZOLLINGER

## Product synopsis

### Hyperthink.net

The product sprang from a realization that searching the world wide web did not need to be limited to html links pre-defined and embedded in web pages. Instead, any text could be immediately linked to a search engine or engines and, effectively, become a hypertext link. The searchable text includes plain text in web pages but also encompasses text in any word-processing program, spreadsheet, office suite or any other type of text.

The text to be searched can either be selected with a left double-click in most applications, or by dragging an inserted cursor (in html or, for example, Word), or by shift/arrows in Word and similar programs. Depending on the language and structure of the document containing the desired text, the text could be selected for search by just hovering. The goal is to make the product, and by extension, the web, as simple to use as possible.

Once the text is selected, a single right click brings up either a drop down menu listing search options or, again depending upon the interface with the underlying language and structure, a detailed GUI. Either way, the options available for searching can be configurable. For example, the default search could just be on the word with a particular search engine over the entire web. Options could modify the default (e.g., search the entire sentence in context, search for jpgs, use a metasearch engine, search only news/information sites, search only an intra- or extranet) or allow complete customization on a per search basis.

The program is also to be intelligent in two ways. First, it can read the terms to be search in the context of either the surrounding text or of the URL from whence it came. For example, if "cardinal" was selected as the text to be searched the intelligence would provide different search results if the text was on a sports page than it would if the text came from a bird-watching page. The second type of intelligence will be learning the user's search preferences (e.g., shopping v. information v. entertainment, etc.). This intelligence can be both programmed in at the initial log-on or learned from repeated uses.

Specialized uses include a lawyer working on a brief typing a case, selecting the text and immediately being transported to a legal search engine such a Lexis or Westlaw. A doctor reviewing a patient report emailed by a colleague could instantly search medical journals and/or drug manufacturers for the latest information on a condition, procedure or medication. On an intranet, a manager doing a personnel evaluation could access all information about a particular employee without leaving the word-processing screen. An author writing or editing a story or book could search Nexis for background information or details.

There are several potential business models. These include licensing the product to a particular portal or search engine site either generically or on a category-specific basis (e.g., legal, medical, journalism, advertising, etc.); creating our own search engine/portal with an advertising basis; providing the search results on a framed basis with either generic or term-related advertising; or, click-through compensation from commercial sites hit from the search results.

Of course, with the patent application in hand we can also just sell the idea for a small fortune in stock to a big player positioned and resourced to do the execution for us and we just sit back on our own island, play some golf, drink a few cold beers and watch their stock go up, up and away until we sell our shares and then we don't give a damn about what happens. Or something like that.

**FILING RECEIPT**

\*OC000000005299002\*

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
60/204,245	05/15/2000		75	15184.1	2		

John C Stringham  
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Date Mailed: 08/04/2000

Receipt is acknowledged of this provisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Bruce R. Baird, Salt Lake City, UT ;  
John M. Zollinger, South Jordan, UT ;

**Continuing Data as Claimed by Applicant****Foreign Applications**

If Required, Foreign Filing License Granted 08/04/2000

**\*\* SMALL ENTITY \*\*****Title**

Methods and systems for user activated automated searching

**Preliminary Class**

Data entry by : NASH, DEBORAH

Team : OIPE

Date: 08/04/2000

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PATENT APPLICATION  
Docket No.: 15184.1

**UNITED STATES PATENT APPLICATION**

of

**BRUCE R. BAIRD**

**AND**

**JOHN M. ZOLLINGER**

for

**METHODS AND SYSTEMS FOR USER ACTIVATED AUTOMATED SEARCHING**

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9 Figure 1 illustrates an example system that provides an exemplary operating  
10 environment for the present invention; and

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

One embodiment of the present invention relates to allowing a user to perform searches on the Internet without having to leave the particular application within which the user is operating. A preferred method is to allow the user to dynamically create a hyperlink or a link within the application. Once this link is created, the present invention provides for selecting search terms, executing the search request and returning the results to the user without the user having to leave the context of the application. For example, if the user is operating within a word processing program and desires to perform a search relating to some of the words within the document that is being created, the first step that the user must perform is to select the words or the text that correspond to the search terms. The creation of the link, in one embodiment, is an inherent part of the selection of text. In other embodiments, no link is created and the search terms are simply executed. The selection of this text can be done by methods currently known in the art such as highlighting the text with the mouse or keyboard commands.

Once the text has been selected, the user activates the selected text, which is an example of causing the search to be initiated. Frequently this can be done using a drop down menu, a right click of a mouse, a keyboard command, or a voice command or other method. A search is then performed based on the terms that have been selected. In one embodiment, after the text has been selected and activated, the search is performed in the background and the user may continue to operate within the application. Once the search has been performed, the search results are returned to the user. In some instances, those results can be input directly into the word processing application or other application, or the user has the option of previewing the results or viewing the results. The user can also store the results to a hard drive or other storage medium for later review. The present invention

1 also has the ability to take into account the context of the document that is being created by  
2 the user. For example, the present invention may examine the sentence that contains the  
3 selected word to focus the search terms that have been selected.

4 While the present invention has been described herein with regards to word  
5 processing applications, the presentation may also be used in other situations. The present  
6 invention may be used to search documents that are saved or files that are saved in other  
7 locations. For instance, a user may designate one or more files that are stored on a network  
8 storage medium to serve as the search parameters. Alternatively, a user may initiate a search  
9 on a computer network for all files that contain particular words and then cause the present  
10 invention to search the Internet for information relating to those terms that have been  
11 identified by a user. The present invention may be used with text recognition applications,  
12 database applications, spreadsheet applications, and the like.

13 The user may designate which search engine or Internet site is to be used for the  
14 search. Alternatively, a user may designate that the search be performed on more than one  
15 search engine or that a metasearch engine be used. In other words, the present invention is  
16 highly configurable by the user. The user can specify which terms are to be searched. The  
17 user is also able to specify how the search is to be performed, whether it be a context based  
18 search or strictly limited to the terms or words that have been selected by the user. The user  
19 is able to indicate how the search is to be performed and where the search is to be  
20 performed. The user is also able to indicate how many results are to be returned. More  
21 simply, the user is able to configure, in a variety of ways, how the present invention is to be  
22 utilized. User preferences may be pre-set, but the present invention has the ability to learn a  
23 user's preferences.

24

1       The present invention also has a look-ahead feature. This look-ahead feature allows  
2 the present invention to search for terms that exist in a document, for example, and perform  
3 a search before the user actually indicates that a search is to be performed on those terms.  
4 For instance, when a brief is written, various cases are cited. When the present invention is  
5 able to detect a case citation, the search is automatically performed and the search results of  
6 that case citation may be provided through use of the present invention. This feature is  
7 particularly useful in a variety of situations including but not limited to: attorney's writing  
8 legal documents; doctors writing medical histories; accountants performing numerical  
9 analysis; journalists writing articles; and academicians researching projects.

10       The present invention is not limited, however, to searching for text. The present  
11 invention is capable of searching for image files, sound files, MPEG files, or other type of  
12 files that may exist and contain information that is accessible over the Internet or other  
13 networks. In one embodiment, these types of searches are performed using the metadata  
14 that accompanies these types of files. For example, graphic files typically have metadata  
15 that describes what the image is and these terms are able to be searched.

16       The present invention extends to both methods and systems for automating Internet  
17 searches. The embodiments of the present invention may comprise a special purpose or  
18 general purpose computer including various computer hardware, as discussed in greater  
19 detail below.

20       Embodiments within the scope of the present invention also include computer-  
21 readable media for carrying or having computer-executable instructions or data structures  
22 stored thereon. Such computer-readable media can be any available media which can be  
23 accessed by a general purpose or special purpose computer. By way of example, and not  
24 limitation, such computer-readable media can comprise RAM, ROM, EEPROM, CD-ROM

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1 or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any  
2 other medium which can be used to carry or store desired program code means in the form  
3 of computer-executable instructions or data structures and which can be accessed by a  
4 general purpose or special purpose computer. When information is transferred or provided  
5 over a network or another communications connection (either hardwired, wireless, or a  
6 combination of hardwired or wireless) to a computer, the computer properly views the  
7 connection as a computer-readable medium. Thus, any such a connection is properly termed  
8 a computer-readable medium. Combinations of the above should also be included within  
9 the scope of computer-readable media. Computer-executable instructions comprise, for  
10 example, instructions and data which cause a general purpose computer, special purpose  
11 computer, or special purpose processing device to perform a certain function or group of  
12 functions.

13 Figure 1 and the following discussion are intended to provide a brief, general  
14 description of a suitable computing environment in which the invention may be  
15 implemented. Although not required, the invention will be described in the general context  
16 of computer-executable instructions, such as program modules, being executed by  
17 computers in network environments. Generally, program modules include routines,  
18 programs, objects, components, data structures, etc. that perform particular tasks or  
19 implement particular abstract data types. Computer-executable instructions, associated data  
20 structures, and program modules represent examples of the program code means for  
21 executing steps of the methods disclosed herein. The particular sequence of such executable  
22 instructions or associated data structures represent examples of corresponding acts for  
23 implementing the functions described in such steps.

24

1       Those skilled in the art will appreciate that the invention may be practiced in  
2 network computing environments with many types of computer system configurations,  
3 including personal computers, hand-held devices, multi-processor systems, microprocessor-  
4 based or programmable consumer electronics, network PCs, minicomputers, mainframe  
5 computers, and the like. The invention may also be practiced in distributed computing  
6 environments where tasks are performed by local and remote processing devices that are  
7 linked (either by hardwired links, wireless links, or by a combination of hardwired or  
8 wireless links) through a communications network. In a distributed computing environment,  
9 program modules may be located in both local and remote memory storage devices.

10       With reference to Figure 1, an exemplary system for implementing the invention  
11 includes a general purpose computing device in the form of a conventional computer 20,  
12 including a processing unit 21, a system memory 22, and a system bus 23 that couples  
13 various system components including the system memory 22 to the processing unit 21. The  
14 system bus 23 may be any of several types of bus structures including a memory bus or  
15 memory controller, a peripheral bus, and a local bus using any of a variety of bus  
16 architectures. The system memory includes read only memory (ROM) 24 and random  
17 access memory (RAM) 25. A basic input/output system (BIOS) 26, containing the basic  
18 routines that help transfer information between elements within the computer 20, such as  
19 during start-up, may be stored in ROM 24.

20       The computer 20 may also include a magnetic hard disk drive 27 for reading from  
21 and writing to a magnetic hard disk 39, a magnetic disk drive 28 for reading from or writing  
22 to a removable magnetic disk 29, and an optical disk drive 30 for reading from or writing to  
23 removable optical disk 31 such as a CD-ROM or other optical media. The magnetic hard  
24 disk drive 27, magnetic disk drive 28, and optical disk drive 30 are connected to the system



1 bus 23 by a hard disk drive interface 32, a magnetic disk drive-interface 33, and an optical  
2 drive interface 34, respectively. The drives and their associated computer-readable media  
3 provide nonvolatile storage of computer-executable instructions, data structures, program  
4 modules and other data for the computer 20. Although the exemplary environment  
5 described herein employs a magnetic hard disk 39, a removable magnetic disk 29 and a  
6 removable optical disk 31, other types of computer readable media for storing data can be  
7 used, including magnetic cassettes, flash memory cards, digital video disks, Bernoulli  
8 cartridges, RAMs, ROMs, and the like.

9 Program code means comprising one or more program modules may be stored on the  
10 hard disk 39, magnetic disk 29, optical disk 31, ROM 24 or RAM 25, including an operating  
11 system 35, one or more application programs 36, other program modules 37, and program  
12 data 38. A user may enter commands and information into the computer 20 through  
13 keyboard 40, pointing device 42, or other input devices (not shown), such as a microphone,  
14 joy stick, game pad, satellite dish, scanner, or the like. These and other input devices are  
15 often connected to the processing unit 21 through a serial port interface 46 coupled to  
16 system bus 23. Alternatively, the input devices may be connected by other interfaces, such  
17 as a parallel port, a game port or a universal serial bus (USB). A monitor 47 or another  
18 display device is also connected to system bus 23 via an interface, such as video adapter 48.  
19 In addition to the monitor, personal computers typically include other peripheral output  
20 devices (not shown), such as speakers and printers.

21 The computer 20 may operate in a networked environment using logical connections  
22 to one or more remote computers, such as remote computers 49a and 49b. Remote  
23 computers 49a and 49b may each be another personal computer, a server, a router, a network  
24 PC, a peer device or other common network node, and typically include many or all of the

1 elements described above relative to the computer 20, although only memory storage  
2 devices 50a and 50b and their associated application programs 36a and 36b have been  
3 illustrated in Figure 1. The logical connections depicted in Figure 1 include a local area  
4 network (LAN) 51 and a wide area network (WAN) 52 that are presented here by way of  
5 example and not limitation. Such networking environments are commonplace in office-  
6 wide or enterprise-wide computer networks, intranets and the Internet.

7 When used in a LAN networking environment, the computer 20 is connected to the  
8 local network 51 through a network interface or adapter 53. When used in a WAN  
9 networking environment, the computer 20 may include a modem 54, a wireless link, or other  
10 means for establishing communications over the wide area network 52, such as the Internet.  
11 The modem 54, which may be internal or external, is connected to the system bus 23 via the  
12 serial port interface 46. In a networked environment, program modules depicted relative to  
13 the computer 20, or portions thereof, may be stored in the remote memory storage device. It  
14 will be appreciated that the network connections shown are exemplary and other means of  
15 establishing communications over wide area network 52 may be used.

16 Referring to Figure 2, which is an exemplary flowchart of a preferred embodiment of  
17 the present invention. In step 100 the user selects text which may be present in a document  
18 being created in a word processor. The methods and manners in which text may be selected  
19 include using a mouse or other device to select text. Text selection may be automatic,  
20 programmed or learned. The present invention is not limited to text however, but images or  
21 other data types may also be selected as described above. In step 102, the text or data is  
22 activated. Activating text or data refers to providing a drop down menu to a user to select  
23 the search engine or causing the computer to initiate the search without having the user  
24 select a search engine. Activating text or data also refers to creating or providing a link that

1 may be activated or clicked on by the user. In one embodiment, the selection of text in step  
2 100 and the activation of text in step 102 comprise creating a link in a user application or  
3 user document. In one embodiment, the created link contains the search terms selected by a  
4 user. When the link is clicked or activated, a search is performed using the terms in the link.  
5 The surrounding text or data may be used as context to focus the search in another  
6 embodiment.

7 In another embodiment of the present invention, it is understood that it is possible to  
8 perform the search based on the link that has been created and store the results for future  
9 access by a user. This enables the user to have instant access to the search results without  
10 having to perform the search again at a later date. The results of the search may be simply  
11 stored on the users local storage medium such as a local hard drive or RAM. In step 104,  
12 after the text has been selected and activated, the search is typically performed as indicated  
13 by the configuration settings or by the user. The search may be performed on an Internet  
14 search engine or over the Internet or through various other types of databases or networks,  
15 including but not limited to, intranets and extranets.

16 In step 106, the results of the search are returned to the user and can be displayed in a  
17 variety of manners. In other words, a user or the application is capable of manipulating the  
18 results. Manipulating the search results includes, but is not limited to, copying at least a  
19 portion of the search results, pasting at least a portion of the search results, deleting at least a  
20 portion the search results, saving at least a portion of the results, using the search results in  
21 accordance with pre-defined rules or procedures, and the like. For example, the results of  
22 the search may be displayed when the user mouses over the text that was previously  
23 selected. When that mouse crosses over the activated text the results can be displayed in a  
24 pop up window to a user and the user then has the ability to select which of the search

1 results the user desires to place in the document or to read. In another embodiment, the  
2 present invention may simply place the first result of the search into the document without  
3 further user input. For example, if the search result is a court case citation, then the citation  
4 may be placed within the text. The user then has the ability to edit this result as if it were  
5 text that the user had created. These methods are intended to be exemplary descriptions of  
6 how search results can be returned to a user and used in a document or other application.  
7 Additionally, more than one portion of the text or other data may be activated. Also, linked  
8 and unlinked text and data displayed by a browser are included within preferred  
9 embodiments of the present invention.

10       Essentially, hyperlinks or links are being created where hyperlinks or links do not  
11 already exist. Links are dynamically created based on the data that is selected as well as the  
12 context of the selected data. For example, the search engine that is used to perform the  
13 search for a selected word (sentence, paragraph, image) may be determined based on the  
14 context of the word. If the word "aspirin" is selected in a sentence (page, etc.) that also has  
15 the word "interaction" in it, a medical drug interaction database may be searched instead of  
16 a generic search engine.

17       Basically, a user indicates what text is to be used in a search. This may be done in a  
18 number of ways depending on the application being executed by the user. In many  
19 instances, both the operating system and a particular application are involved in the selection  
20 of text or other data. Depending on the application, for example, a user may highlight the  
21 text (with mouse, keyboard, or some other way); hover the cursor over the text; and  
22 wherever the cursor is in some document (like while doing word processing).

23       Once the text to search for is indicated in some fashion, the user will trigger the  
24 search or activate the text. Again, this can happen in several ways, such as click the mouse

1 (right, left, middle, etc.); key sequence (F12, etc.); menu item; main application menu;  
2 context menu (which usually comes up when the user right clicks in an application); toolbar  
3 button; voice command, dedicated keyboard or mouse button, and the like.

4 When the search action is initiated, the search may occur immediately based on the  
5 selected text and bring up the results in a web browser, or it may bring up a user interface to  
6 prompt the user for more information to fine tune the search actions being performed. For  
7 example, the user may: highlight a word; right click to bring up the context menu; or select  
8 the menu item. Once this action is performed, a dialog window is displayed asking the user  
9 if they want to search based on the word, the sentence the word is contained in, or the  
10 paragraph the word is contained in. The user will also be presented with a list of search  
11 engines they want to use to perform the search. The list of engines to use may come from a  
12 list the user configured ahead of time, a global list, or a list based on the selected terms. The  
13 search may be based on the context of the selected terms. For example, if the selected text  
14 or other data is a recognized medical term, then a list of medical related sites are displayed.  
15 If the search terms are the name of a car, then various car related web sites may be searched.

16 The search may be performed based on what other users with a similar profile to the  
17 current user may have used for similar terms in the past. For example, using the term  
18 "metal," a search for users in the manufacturing industry may be performed in a  
19 metallurgical database, while other a search for other users may be performed in a music  
20 database. The determination of which search engines will be displayed or used may be  
21 driven by the term and a user. Often a user ID may also be utilized in determining how the  
22 search is to be performed. One embodiment of the present invention is capable of  
23 determining how the search is to be performed while other embodiments leave the  
24 determination to other applications on the user's computer or on a remote computer.

1       Once the search engine(s) are determined or selected, the search is passed into the  
2 various search engines through their standard HTML or XHTML form based method of  
3 searching. In addition, for search engines that may not be HTML or XHTML based, other  
4 methods of triggering the search can be used. For example, searching for the term may  
5 occur in a company's glossary that resides in some database.

6       The results of the search can be displayed in the user's web browser, in an embedded  
7 browser window in the triggering application, or in some other custom interface that is used  
8 for displaying that search engine's results.

9       The present invention will interface with existing applications or operating systems  
10 via that application's API (application programming interface) to provide the user activated  
11 search functionality. A new set of context menu items may be added to each application.  
12 The fewer actions the user has to take to select the search term, and perform the search the  
13 better. This process depends on both the application and the application's application  
14 programming interfaces (APIs). One application may involve simply hovering the mouse  
15 point over a term and pressing the middle mouse button, other applications may involve  
16 highlighting the search terms and then right clicking to bring up a context menu such that  
17 the appropriate menu item may be selected.

18       Ideally, the present invention would be integrated with an operating system to  
19 provide this capability to every application on the system (similar to how most applications  
20 supports cut/copy/paste). But, the present invention may also be application specific.

21       Some of the applications that obviously fit this functionality are web browsers, e-  
22 mail clients, word processors, spreadsheets, PDF viewers and the like, chat clients, voice  
23 recognition systems, operating systems and the like. Note that an operating system is also  
24 considered to be an application.

1 Searching the worldwide web need not be limited to HTML links pre-defined and  
2 embedded in web pages. Instead, any text can be immediately linked to a search engine or  
3 engines and, effectively, become a hypertext link through the present invention. The  
4 searchable text not only includes plain text in web pages but also encompasses text in any  
5 word processing program, spreadsheet, office suite or any other type of text.

6 The text to be searched can either be selected with a left double-click in most  
7 applications, or by dragging an inserted cursor (in HTML), or by shift/arrows in some  
8 programs. Depending on the language, structure, and API of the document containing the  
9 desired text, the text could be selected for searching by just hovering over the desired search  
10 terms.

11 For example, once the text is selected, a single right click brings up either a drop  
12 down menu listing search options or, depending upon the API for the underlying page, a  
13 detailed GUI. Either way, the options available for searching are configurable. For  
14 example, the default search could be on the word with a particular search engine over the  
15 entire web. Options could modify the default (e.g., search the entire sentence in context,  
16 search for graphic files, use a metasearch engine, search only news/information sites, search  
17 only an intra- or extranet) or allow complete customization on a per search basis.

18 The program is also intelligent in many ways. First, it can read the terms to be  
19 searched in the context of either the surrounding text or of the URL from whence it came.  
20 For example, if "cardinal" were selected as the text to be searched, the intelligence would  
21 provide different search results if the text were on a sports page than it would if the text  
22 came from a bird-watching page. A second type of intelligence will be learning the user's  
23 search preferences (e.g., shopping v. information v. entertainment, etc.). This intelligence  
24

1 can be both programmed in at the initial log-on or learned from repeated uses of the present  
2 invention.

3 A third type of intelligence would be a "look-ahead" feature. On a HTML page or in  
4 another application the program would identify non-hypertext terms likely to be searched  
5 (e.g., proper nouns or, depending on the users learned or entered preferences, terms of art in  
6 a particular field or fields), search the terms, and cache the results. The results of the search  
7 could be set to appear, for example as a pop-up when the cursor hovered over the text.

8 Specialized uses include a lawyer working on a brief typing a case, selecting the text  
9 and immediately being transported to a legal search engine such a Lexis or Westlaw. With  
10 the "look-ahead" feature operational and enabled the search results would already be  
11 resident and thus the search would be instantaneous. A doctor reviewing a patient report  
12 emailed by a colleague could instantly search medical journals and/or drug manufacturers  
13 for the latest information on a condition, procedure, or medication. On an intranet, a  
14 manager doing personnel evaluations could access all information about a particular  
15 employee without leaving the word-processing screen. An author writing or editing a story  
16 or book could search specialized databases for background information or details.

17 The present invention is not, as previously described, limited to text. The present  
18 invention can be used in conjunction with scanned data, text recognition devices and files,  
19 image files, MPEG files, voice commands and other user input and available data. The data  
20 may be selected, activated and searched. The user is relieved of leaving an application to  
21 externally and manually execute a search. The results of the search can be stored,  
22 incorporated into the specific application, viewed, pre-viewed or otherwise handled as  
23 specified by a user.  
24



1 The present invention may be embodied in other specific forms without departing  
2 from its spirit or essential characteristics. The described embodiments are to be considered  
3 in all respects only as illustrative and not restrictive. The scope of the invention is,  
4 therefore, indicated by the appended claims rather than by the foregoing description. All  
5 changes which come within the meaning and range of equivalency of the claims are to be  
6 embraced within their scope.

7 What is claimed and desired to be secured by United States Letters Patent is:  
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1           1.     In a system having at least one application, a method for executing a search  
2 from within the at least one application, the method comprising the steps of:

3                 selecting one or more search terms within the at least one application;

4                 activating the one or more search terms;

5                 performing a search based on the one or more search terms; and

6                 returning search results to the at least one application.

7  
8           2.     A method as defined in claim 1, wherein the at least one application is  
9 selected from the group of: word processor; spreadsheet, database, image processor; web  
10 browser; text recognition; email client, and operating system.

11  
12          3.     A method as defined in claim 1, wherein the step of selecting further  
13 comprises the step of automatically selecting the one or more search terms pursuant to pre-  
14 defined rules.

15  
16          4.     A method as defined in claim 1, further comprising the step of configuring  
17 the search.

18  
19          5.     A method as defined in claim 1, further comprising the step of searching  
20 according to a context of the one or more search terms.

21  
22          6.     A method as defined in claim 1, further comprising the step of storing the  
23 search results.

24

1           7.     A method as defined in claim 1, further comprising the step of presenting the  
2 search results to the user without the user having to exit the at least one application.

3  
4           8.     A method as defined in claim 1, wherein the search is performed without the  
5 user having to exit the at least one application.

6  
7           9.     A method as defined in claim 1, further comprising the step of the  
8 manipulating, by a user, the search results.

9  
10          10.    A computer readable medium having computer executable instructions for  
11 performing the steps recited in claim 1.

1           11.     In a computer system connected to a network, a method for performing a  
2 search over the network, the method comprising the steps of:

3                     selecting search data within at least one application in the computer system;

4                     activating the search data;

5                     performing a search on the search data from within the at least one  
6 application such that the user is not required to open another application;

7                     returning search results to a user within the at least one application, wherein  
8 the user views the search results within the at least one application.  
9

10           12.     A method as defined in claim 11, wherein the search data comprises text.  
11

12           13.     A method as defined in claim 11, wherein the step of activating further  
13 comprises the step of configuring the search.  
14

15           14.     A method as defined in claim 11, wherein the step of activating further  
16 comprises the step of selecting at least one search location.  
17

18           15.     A computer readable medium having computer executable instructions for  
19 performing the steps recited in claim 11.  
20  
21  
22  
23  
24

1           16. In a computer system having access to one or more applications, the  
2 computer system connected to a network, a method for searching over the network, the  
3 method comprising the steps of:

4                   within an application, previewing data within at least one application;  
5                   selecting a portion of the previewed data as search terms;  
6                   performing a search based on the portion of the previewed data without user  
7 input;  
8                   caching search results from the search, wherein the search results are readily  
9 available to a user.

10  
11           17. A computer readable medium having computer executable instructions for  
12 performing the steps recited in claim 16.

**ABSTRACT OF THE INVENTION**

The present invention provides systems and methods for automating a search over a network such as the Internet. A user selects data such as text from within an application. The selected data is activated and a search is performed without the user having to leave the application. The search is performed while the user is continuing within the application. When the search is complete, the search results are made available to the user within the application from which the search was initiated. In one embodiment, the data is pre-searched and the results are cached such that the results are already available should the user desire. The present invention is particularly suited to integration with an operating system such that the methods of the present invention are thereby available to all applications. Alternatively, the present invention can be specific to a particular application.

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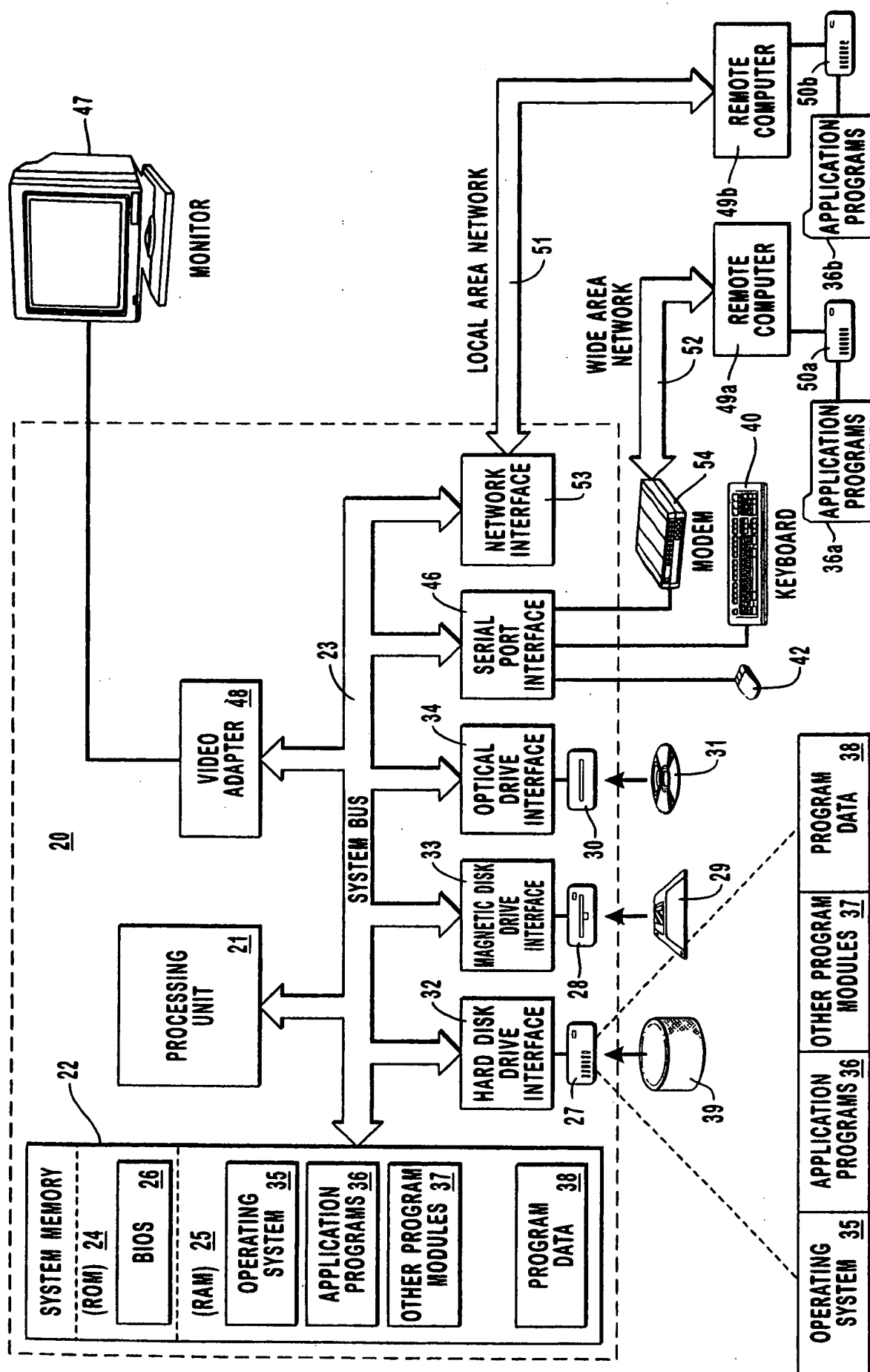


FIG. 1

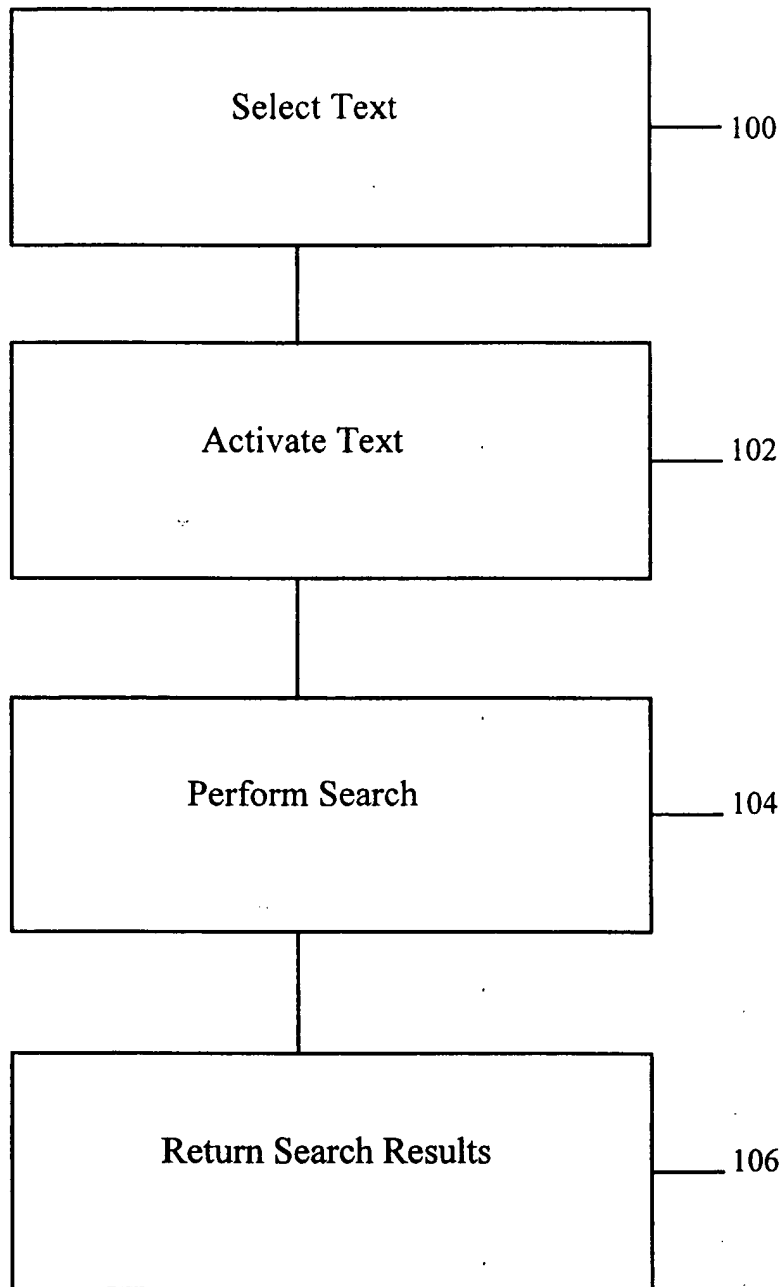


FIG 2